

C.O.C.: ---

REPORT No. B14-20418

Report To:

ATCO Structure & Logistics

PO Box 88,
NU X0A 0V0 Canada

Attention: Rick Gaulton

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 13-Aug-14

JOB/PROJECT NO.: Hamlet of Resolute Bay

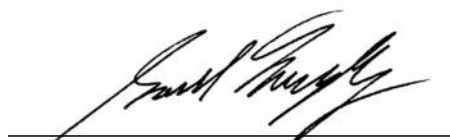
DATE REPORTED: 22-Aug-14

P.O. NUMBER:

SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.	Resolute Landfill			
			Sample I.D.	B14-20418-1			
			Date Collected	09-Aug-14			
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Fecal Coliform	cfu/100mL	1	MOE E3371	13-Aug-14/O	910		
BOD	mg/L	3	SM 5210B	15-Aug-14/O	6		
Total Suspended Solids	mg/L	3	SM 2540D	20-Aug-14/O	3		
Hardness (as CaCO ₃)	mg/L	1	SM 3120	14-Aug-14/O	243		
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	14-Aug-14/O	169		
Conductivity @25°C	µmho/cm	1	SM 2510B	14-Aug-14/O	611		
pH @25°C	pH Units		SM 4500H	14-Aug-14/O	8.02		
Total Organic Carbon	mg/L	0.2	EPA 415.1	14-Aug-14/O	10.8		
Nitrite (N)	mg/L	0.1	SM4110C	14-Aug-14/O	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	14-Aug-14/O	0.1		
Chloride	mg/L	0.5	SM4110C	14-Aug-14/O	30.0		
Sulphate	mg/L	1	SM4110C	14-Aug-14/O	121		
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	14-Aug-14/O	< 0.01		
Phosphorus-Total	mg/L	0.01	MOEE 3367	21-Aug-14/O	0.06		
Phenolics	mg/L	0.001	MOEE 3179	15-Aug-14/O	0.126		
Aluminum (total)	mg/L	0.01	SM 3120	14-Aug-14/O	0.06		
Arsenic	mg/L	0.0005	EPA 200.8	14-Aug-14/O	0.0008		
Calcium	mg/L	0.02	SM 3120	14-Aug-14/O	77.4		
Cadmium	mg/L	0.005	SM 3120	14-Aug-14/O	< 0.005		
Cobalt	mg/L	0.005	SM 3120	14-Aug-14/O	< 0.005		
Copper	mg/L	0.002	SM 3120	14-Aug-14/O	0.004		
Chromium	mg/L	0.002	SM 3120	14-Aug-14/O	< 0.002		
Iron (Total)	mg/L	0.005	SM 3120	14-Aug-14/O	0.182		
Lead	mg/L	0.02	SM 3120	14-Aug-14/O	< 0.02		
Magnesium	mg/L	0.01	SM 3120	14-Aug-14/O	12.1		
Manganese (Total)	mg/L	0.001	SM 3120	14-Aug-14/O	0.057		
Mercury	mg/L	0.00002	SM 3112 B	14-Aug-14/O	< 0.00002		



Gord Murphy
Lab Supervisor

M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

C.O.C.: ---

REPORT No. B14-20418

Report To:

ATCO Structure & Logistics

PO Box 88,
NU X0A 0V0 Canada

Attention: Rick Gaulton

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 13-Aug-14

JOB/PROJECT NO.: Hamlet of Resolute Bay

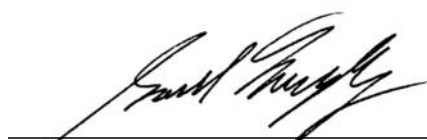
DATE REPORTED: 22-Aug-14

P.O. NUMBER:

SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.		Resolute Landfill			
			Sample I.D.		B14-20418-1			
			Date Collected		09-Aug-14			
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed				
Nickel	mg/L	0.01	SM 3120	14-Aug-14/O	< 0.01			
Potassium	mg/L	0.1	SM 3120	14-Aug-14/O	4.3			
Sodium	mg/L	0.2	SM 3120	14-Aug-14/O	20.2			
Zinc	mg/L	0.005	SM 3120	14-Aug-14/O	0.029			
Acenaphthene	µg/L	0.05	EPA 8270	20-Aug-14/K	0.25			
Acenaphthylene	µg/L	0.05	EPA 8270	20-Aug-14/K	< 0.05			
Anthracene	µg/L	0.05	EPA 8270	20-Aug-14/K	0.09			
Benzo(a)anthracene	µg/L	0.05	EPA 8270	20-Aug-14/K	< 0.05			
Benzo(a)pyrene	µg/L	0.01	EPA 8270	20-Aug-14/K	< 0.01			
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	20-Aug-14/K	< 0.05			
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	20-Aug-14/K	< 0.1			
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	20-Aug-14/K	< 0.05			
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	20-Aug-14/K	< 0.05			
Chrysene	µg/L	0.05	EPA 8270	20-Aug-14/K	< 0.05			
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	20-Aug-14/K	< 0.05			
Fluoranthene	µg/L	0.05	EPA 8270	20-Aug-14/K	0.08			
Fluorene	µg/L	0.05	EPA 8270	20-Aug-14/K	0.31			
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	20-Aug-14/K	< 0.05			
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	20-Aug-14/K	0.12			
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	20-Aug-14/K	0.24			
Naphthalene	µg/L	0.05	EPA 8270	20-Aug-14/K	0.84			
Phenanthrene	µg/L	0.05	EPA 8270	20-Aug-14/K	0.62			
Pyrene	µg/L	0.05	EPA 8270	20-Aug-14/K	< 0.05			
2-Fluorobiphenyl (SS)	% rec.	10	EPA 8270	20-Aug-14/K	83.0			
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	20-Aug-14/K	102			
Benzene	µg/L	0.5	EPA 8260	15-Aug-14/O	< 0.5			
Toluene	µg/L	0.5	EPA 8260	15-Aug-14/O	< 0.5			



Gord Murphy
Lab Supervisor

M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

C.O.C.: ---

REPORT No. B14-20418

Report To:

ATCO Structure & Logistics

PO Box 88,
NU X0A 0V0 Canada

Attention: Rick Gaulton

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 13-Aug-14

JOB/PROJECT NO.: Hamlet of Resolute Bay

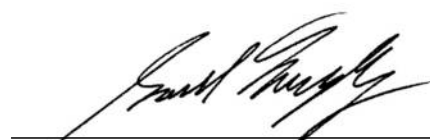
DATE REPORTED: 22-Aug-14

P.O. NUMBER:

SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.	Resolute Landfill			
			Sample I.D.	B14-20418-1			
			Date Collected	09-Aug-14			
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Ethylbenzene	µg/L	0.5	EPA 8260	15-Aug-14/O	< 0.5		
Xylene, m,p-	µg/L	0.4	EPA 8260	15-Aug-14/O	< 0.4		
Styrene	µg/L	0.5	EPA 8260	15-Aug-14/O	< 0.5		
Xylene, o-	µg/L	0.1	EPA 8260	15-Aug-14/O	< 0.1		
Dichloroethane-d4,1,2-(SS)	%		EPA 8260	15-Aug-14/O	106		
Toluene-d8 (SS)	%		EPA 8260	15-Aug-14/O	108		
Bromofluorobenzene,4(SS)	%		EPA 8260	15-Aug-14/O	104		
PHC F1 (C6-C10)	µg/L	20	MOE E3421	15-Aug-14/O	< 20		
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	18-Aug-14/O	< 50		
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	18-Aug-14/O	< 400		
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	18-Aug-14/O	< 400		
Oil & Grease-Total	mg/L	1.0	SM 5520	21-Aug-14/K	< 1.0		



Gord Murphy
Lab Supervisor

M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.